

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 7798

CALIBRATION DATE: 08-Apr-17

SBE 19plus V2 TEMPERATURE CALIBRATION DATA

ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 1.201652e-003

a1 = 2.814666e-004

a2 = -1.207876e-006

a3 = 1.862474e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	554354.362	1.0000	-0.0000
4.5002	490448.914	4.5002	0.0000
15.0000	333982.966	15.0000	0.0000
18.5000	292430.638	18.4999	-0.0001
23.9999	236278.915	24.0000	0.0001
29.0000	193710.966	29.0000	0.0000
32.5000	168059.356	32.5000	-0.0000

n = Instrument Output (counts)

MV = (n - 524288) / 1.6e+007

R = (MV * 2.900e+009 + 1.024e+008) / (2.048e+004 - MV * 2.0e+005)

Temperature ITS-90 (°C) = 1 / {a0 + a1[ln(R)] + a2[ln²(R)] + a3[ln³(R)]} - 273.15

Residual (°C) = instrument temperature - bath temperature

